PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference B04/0067PC	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/EP2005/001200	International filing date (day/month/year) 07 February 2005 (07.02.2005)	Priority date (day/month/year) 09 February 2004 (09.02.2004)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant BASF AKTIENGESELLSCHAFT				

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).				
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	. This report contains indications relating to the following items:				
	Box No. I	Basis of the report			
	Вох №. П	Priority			
	Box No. III	Non-establishment of opinion applicability	on with regard to novelty, inventive step and industrial		
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	ox No. VI Certain accuments cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the	international application		
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report 03 October 2006 (03.10.2006)		
	The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		Authorized officer Ellen Moyse		
Face	Facsimile No. +41 22 338 82 70		e-mail: pt05@wipo.int		

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

rom the NTERNATIONAL SEARCHING AUTHOR	ITY		NS,
To:			PCT
	·		ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	See form PCT/ISA/210
Applicant's or agent's file reference		FOR FURTHER A	CTION
B04/0067PC			See paragraph 2 below
International application No. PCT/EP2005/001200	International filing date 07.02.2005	(day/month/year)	Priority date (day/month/year) 09.02.2004
International Patent Classification (IPC) or bot C08G71/02	h national classification ar	nd IPC	
Applicant BASF AKTIENGESELLSCH	AFT		
This opinion contains indications rel	lating to the following item	is:	
Box No. I Basis of th	e opinion		
Box No. II Priority			
Box No. III Non-estab	lishment of opinion with re	egard to novelty, invent	ive step and industrial applicability
Box No. IV Lack of ur	nity of invention		
Box No. IV Lack of un Box No. V Reasoned applicabil	statement under Rule 43bi ity; citations and explanation	s.1(a)(i) with regard to ons supporting such sta	novelty, inventive step or industrial tement
Box No. VI Certain do	ocuments cited		
Box No. VII Certain de	efects in the international a	pplication	
Box No. VIII Certain of	bservations on the internati	onal application	
International Preliminary Examining than this one to be the IPEA and the International Searching Author	ng Authority ("IPEA") exc he chosen IPEA has notifi- ity will not be so considere	ept that this does not ap ed the International Bu ed.	ill be considered to be a written opinion of the oply where the applicant chooses an Authority other reau under Rule 66.1 bis(b) that written opinions of
If this opinion is, as provided about written reply together, where app PCT/ISA/220 or before the expiration	morate with amendment	s, before the expiration	A, the applicant is invited to submit to the IPEA and of 3 months from the date of mailing of Form rexpires later.
For further options, see Form PCT/			
3. For further details, see notes to For	rm PCT/ISA/220.		
N 1 111 2 11 2 1 1 1 1 1 1 1 1 1 1 1 1 1		Authorized officer	
Name and mailing address of the ISA/EP		110000000000000000000000000000000000000	
Facsimile No.		Telephone No.	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/001200

Bo	x No. I Basis of this opinion	
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it filed, unless otherwise indicated under this item.	vas
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (un	ler
	Rule 12.3 and 23.1(b)).	
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the clair invention, this opinion has been established on the basis of:	ned
	a. type of material	
	a sequence listing	
	table(s) related to the sequence listing	
	b. format of material	
	in written format	
	in computer readable form	
	c. time of filing/furnishing	
	contained in the international application as filed.	
	filed together with the international application in computer readable form.	
	furnished subsequently to this Authority for the purposes of search.	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been file furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application filed or does not go beyond the application as filed, as appropriate, were furnished.	d or
4.	Additional comments:	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/001200

Box	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement		· · · · · · · · · · · · · · · · · · ·		
	Novelty (N)	Claims	1-10	YES	
	• • •	Claims	1 10	NO	
		Claims		•	
	Inventive step (IS)	Claims	1-10	YES	
İ		Claims		NO	
	Industrial applicability (IA)	Claima	1-10	YES	
	,	Claims	1 10	NO	
		Ciamis		- ' ' ' '	
2.	Citations and explanations:				
	Reference is made	to the	following documents:		
	D1: DE 17 70 413	8 A1			
	D2: DE 102 04 97	9 A1 (cited in the application)		
	1. Novelty (PCI	Artic	le 33(2))/Inventive step (PCT Article 33(3))		
i					
	The subject matter of current claims 1-10 is novel over the prior art as cited in the international search report. None of the				
1			he international search report discloses a		
			on of highly functional and highly reactive		
	polyureas via read	ction o	f <u>ureas</u> with one or more <u>amines</u> having at		
ļ	least two primary	and/or	secondary amino groups, where at least one		
			primary and/or secondary amino groups, the		
			and their use for production of, inter alia,		
	paints, adhesives,	casti	ng elastomers and foams.		
	The subject matter	of cu	errent claims 1-10 involves an inventive		
	step, since, for t	he fol	lowing reasons, neither document D1 alone,		
	which can be consi	dered	to be closest prior art, nor D1 in		
	conjunction with a	any oth	er document mentioned in the international		
			indication of the claimed process, the		
İ	corresponding prod				
ļ	D1 discloses parti	ially c	rosslinked polyureas produced from diamines,		
	-	_	ints of bisepoxide as crosslinking agent.		
	_		errent claim 1 differs from D1 in the use of		
	polyamines having	at lea	st three primary and/or secondary amines.		

The provision of highly functional and highly branched polyureas which have good solubility, and also of a simplified alternative process for their production, is considered to be a technical

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/001200

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

problem.

The technical problem is solved via the process mentioned, and soluble polyureas derived from diethylenetriamine and urea (example 9) and from a mixture of tris(aminoethyl)amine/isophoronediamine and urea (example 8, table 1) are thus produced. These ureas can also be subsequently functionalized (see page 13, line 22 - page 14, line 17). The process mentioned for production of polyureas is not obvious from the prior art, and D2 indicates the production of highly functional, highly branched polyureas via reaction of polyamines with capped polyisocyanates, and the application can therefore be considered as involving an inventive step.

Industrial applicability (PCT Article 33(4))

The invention relates to highly branched polyureas and is therefore industrially applicable.